2018.08.29

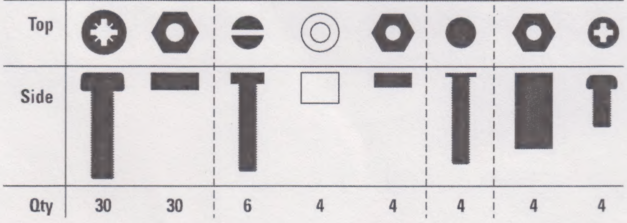
PICADE

ERRATA/FAQ

Here's a few little bugbears and helpful notes we've made where reality has differred from our carefully crafted vision of the new Picade.

GENERAL: Know Thy Bolts
These are the different bits and bolts used in the Picade kit, and the minimum of each you'll need to complete your build:

Size	M3	M3	M2.5	M2.5	M2.5	M2.5	M2.5	M2.5
Length	12mm	Nut	12mm	5mm	Nut	12mm	Standoff	5mm
Type	Metal	Metal	Nylon	Nylon	Nylon	Metal	Metal	Metal
Qty	30	30	6	4	4	4	4	4



JOYSTICK: Mounting Hole Placement
The bolts used to attach the joystick are only slightly larger than the holes on the metal joystick plate, however the holes in the plastic and MDF console pieces are spaced slightly further apart than the holes on the metal joystick plate so that the nuts grip over the edge of the holes when tightened. This is an intentional feature of the design, and your joystick will still be firmly attached.

JOYSTICK: Wiring
The wires on the joystick from right to left (note that the wires on the wiring diagram don't trace correctly between the joystick and Picade X HAT connector) are up, down, right, left, and ground, as you are looking at the connector from below with the wires going downwards.

If your joystick only has one direction that works later when it comes to mapping the controls, then the wires have been connected back-to-front. Simply remove the pin connectors for the joystick on the Picade X HAT, flip them 180 degrees, and plug them in again.

SCREEN: Assembling the frame
Note that the BASE 2 piece does not have a cutout as stated in the assembly instructions; just make sure the the "BASE 2" text is the right way up, and matches up with the writing on the other acrylic screen pieces

SCREEN: Attaching the driver PCB to the screen assembly
The bolts used to attach the display driver board to its bracket are the four black metal M2.5 flange bolts in a separate bag. These have low-profile heads, with no slot on top, and prevent the acrylic bracket for the driver board from bending out too far. Use four of the black plastic M2.5 nuts in the bag with the Raspberry Pi fixings to attach the flange screws.

SCREEN: Keypad wiring
The ribbon cable for the keypad should go underneath the black plastic clips on the connectors on both the keypad and display driver board. If you try to fit it on top of the black plastic clip then it'll still fit but won't work!

SOFTWARE/SCREEN: Screen remains blank on power up
If the screen on your Picade doesn't show anything while it's booting up, then you'll need to do a little jiggery-pokery to get it working. Because of the way that the Raspberry Pi handles power to the USB ports during boot, and due to the fact that the screen is powered from the USB ports, the display isn't detected during boot-up.

However, you can force the Pi to output to HDMI one of two ways.

1) Connect a separate micro-USB power supply to the display driver board

2) Pop the SD card into an SD card reader on a separate computer, or edit the `/boot/config.txt` file in a text editor (SublimeText is our favourite) or by typing `sudo nano /boot/config.txt` in the terminal (press F4 in RetroPie to exit to the terminal, then type `emulationstation` to get back in). Add the line `hdmi_force_hotplug=1` to the bottom of that file, save, and then reboot your Picade to enable the change.

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